



# City of Los Angeles

## Used Oil Filter Recycling

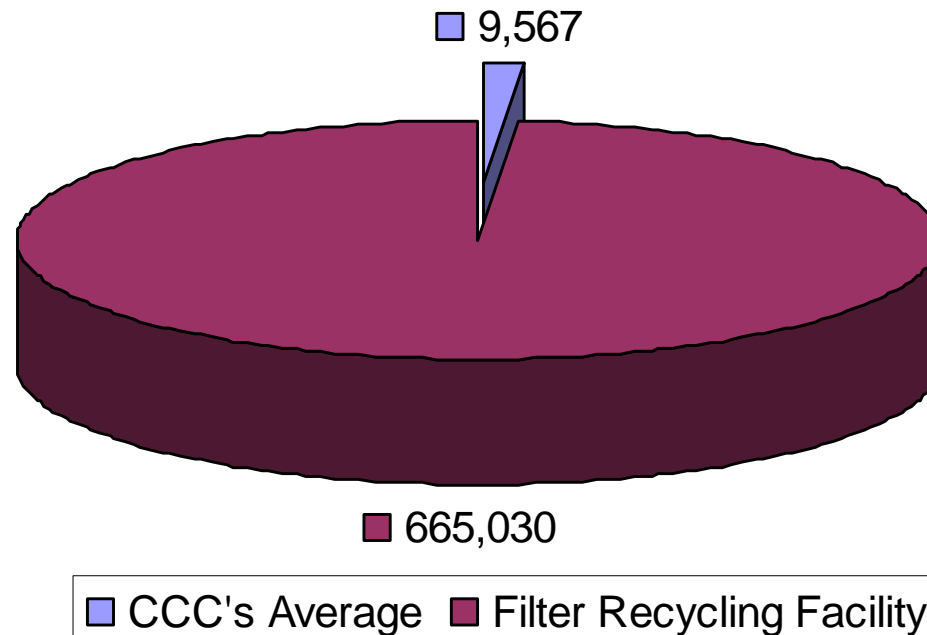
# Presentation Outline

- Introduction
- Filter Recycling Process
- City's Program
- Filter Exchange

# Introduction

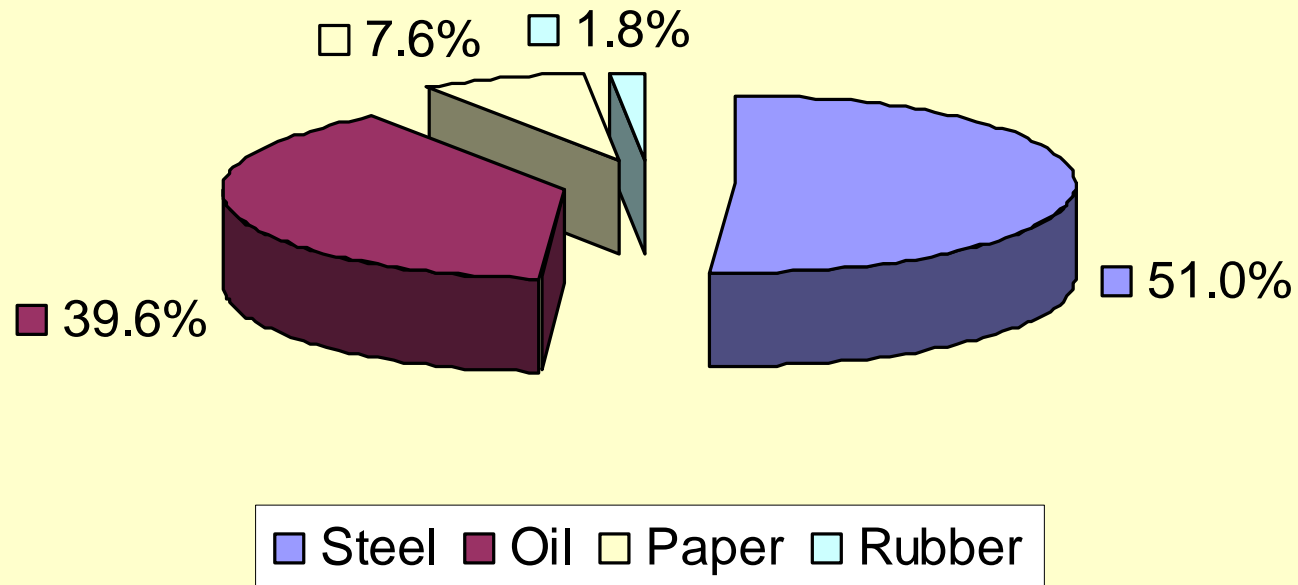
- More used oil is recovered from Filter recycling than it is perceived

**Typical Yearly Used Oil Recovered by a Filter Recycling Facility in LA vs. Average Volume Collected by a Certified Collection Center**



# Used Oil Filter

## Content of A Typical Light Duty Used Oil Filter After 12 Hours Hot Drain





# Used Oil Filter Profile

## Nationwide

- About 420 million oil filters are manufactured and sold in the USA each year.
- Less than 25% of all the oil filters sold are properly recycled.

# Used Oil Filter Profile

## California

- More than 20 million oil filters are purchased by do-it-yourselfers (DIYs) in California annually.
- 90 percent of the used oil filters generated by DIYs are not recycled.

# Unaccounted used oil

- Based on these information, it is estimated that un-recycled used oil filters result in potentially improper disposal of approximately 1.2 million gallons of used oil per year in California.



# Typical Recycling Process

- Filters Received at a filter recycling facility





# Recycling Process .....

- Feed Into Shredder



# Recycling Process .....

- Shredding





# Recycling Process .....

- Out feed Belt to separator





# Recycling Process .....

- Magnetic Separation



# Recycling Process .....

- Separated Steel





# Recycling Process .....

- Transfer to Steel Mill Facility For Meltdown and Re-bar Production





# Recycling Process .....

- Filter Media press drain



# Recycling Process .....

- Separated paper is collected for disposal





# Recycling Process .....

- Used Oil is drained and collected in every step of the Process.



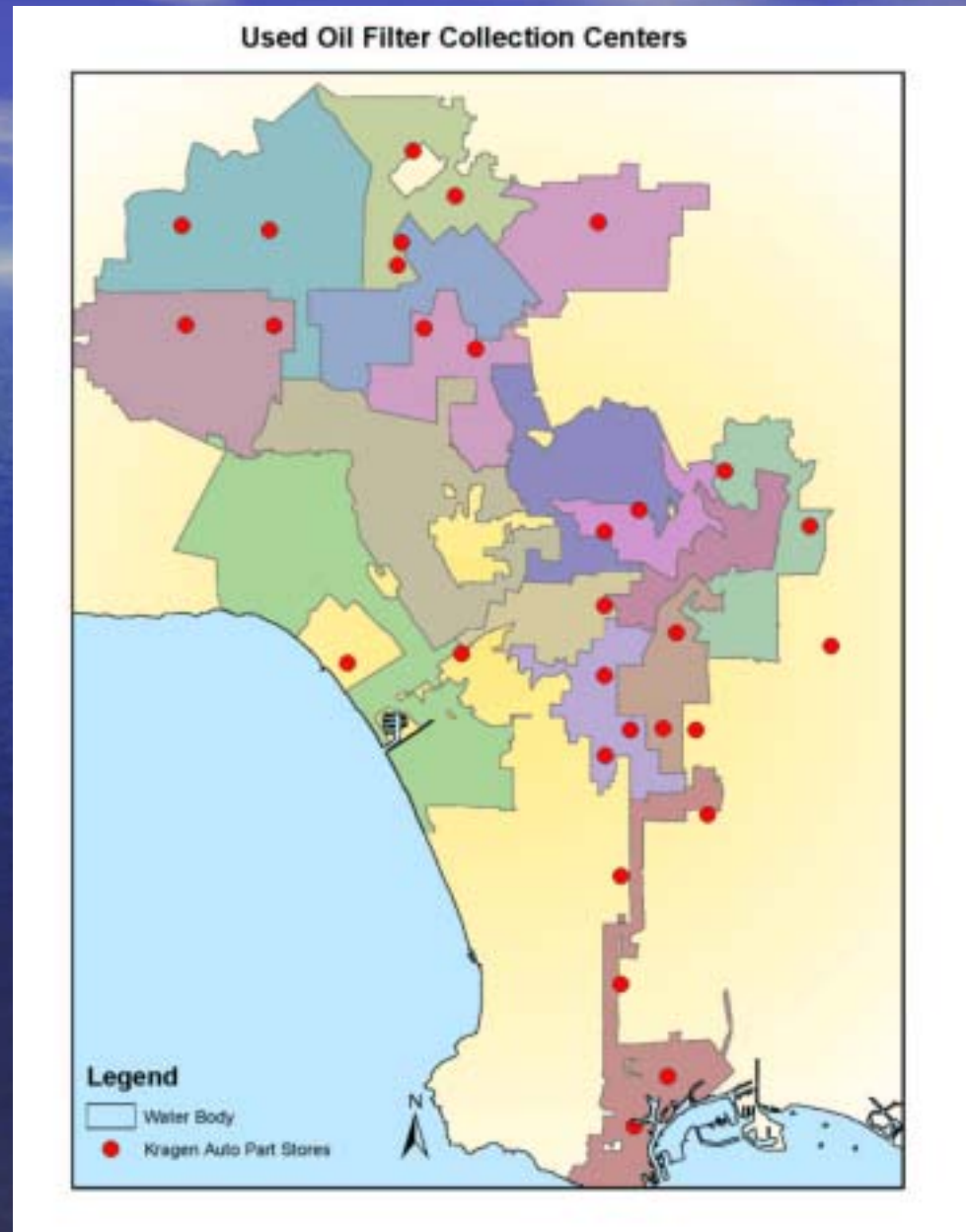


## Collection Center Employees - Filter Recycling Crew



# City's Program

- 30 Kragen Auto Part Stores accept used Oil filters from DIYs.





# Filter Exchange

## GOALS

- Promote Filter Recycling among the DIYs
- Introduce and Promote Certified Centers in their service area as one stop location for Use Oil & Filter Recycling
- Support and Encourage Collection Centers' in their recycling services



# Filter Exchange.....

- Weekend Promotional Events at Selected Kragen Auto Part Stores
- DIYs who bring their used oil filter along with their used oil, receive a new filter in exchange as a promotional item

# Advertisement

Two weeks advance flyer distribution at:

- Auto Part Store (event site);
- Near-by Apartment Complexes;
- Churches, schools, and popular businesses, and ;
- Internet



# Flyers.....



**DONDE:**  
**KRAGEN #1538**  
 1516 E. Florence Ave.  
 Los Angeles, CA 90001

**CUANDO:**  
**Sábado 23 de Agosto del 2003**

**HORA:**  
**10:00 a.m. - 2:00 p.m.**

**Para Más Información:**  
**1-800-98-TOXIC o 1-888-CLEAN-LA**  
 o visite nuestra página en el internet en [www.larecycles.org](http://www.larecycles.org)

Este programa es patrocinado por: Ciudad de Los Angeles, Departamento de Obras Públicas, Bureau de Sanitation

Recycle right, save time. The City of Los Angeles and County of Los Angeles are proud to be part of the California Integrated Waste Management Board.

## ¿Cambia usted el aceite de su coche? si es así ...



Traiga su aceite y filtros de motor usados y reciba gratis toallas de taller, embudos e información de cómo reciclar correctamente su aceite y filtros de motor usados

**Traiganos su filtro usado y reciba un nuevo filtro ¡GRATIS!**



OFERTA PARA FILTRO GRATIS válida solamente durante la fecha, hora, y lugar indicados en esta publicación.



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**WHERE:**  
**KRAGEN #1538**  
 1516 E. Florence Ave.  
 Los Angeles, CA 90001

**WHEN:**  
**Saturday, August 23, 2003**

**TIME:**  
**10:00 a.m. to 2:00 p.m.**

**For More Information:**  
**1-800-98-TOXIC or 1-888-CLEAN-LA**  
 or visit our website at [www.larecycles.org](http://www.larecycles.org)

This program is sponsored by: City of Los Angeles, Department of Public Works, Bureau of Sanitation

Recycle right, save time. The City of Los Angeles and County of Los Angeles are proud to be part of the California Integrated Waste Management Board.

## Do You Change the Oil in Your Car? If so ...



Bring us your used oil and receive free shop rags, oil funnels, and information on how to properly recycle your used oil and oil filters.

**Bring us your used oil filter and receive a new one for FREE!**



FREE FILTER offer valid only during the specified date, time and place outlined in this flyer.



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# Filter Exchange Works...

## Prior to exchange campaign

- 4,500 filters collected in 2002

## Following the exchange campaign

- 12,000 filters collected in 2003, an increase of 267%
- A 10% to 70% increase in used oil collection at participating stores



# Survey of DIYs

- 100% of participating DIY's were not aware of existing potentials for filter recycling



Zip Code \_\_\_\_\_

Type of Filter you use \_\_\_\_\_

Did you know used oil filters are recycled into Construction REBARS?

Will you continue to recycle your filter?      Yes      No



Funded by a grant from the California Integrated Waste Management Board



# Filter Recycling

Recycling your used oil filter is...

good  
for the  
environment

STEP  
1

When you recycle your used oil filters,  
they are collected and transported  
to a FILTER RECYCLING facility.



and good  
for the  
economy.

STEP  
2

Then they are shredded,  
and the trapped, used  
oil is separated from  
the steel.



The steel is taken to a  
steel mill facility where  
it is melted.

STEP  
3



The used oil is  
transported to a  
refining facility.



... And finally, your used  
oil filters are recycled  
into rebar, ready for  
use in construction  
AND re-refined oil.



For More Information, Please Call:  
1-800-98-TOXIC (1-800-988-6942)



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Reciclar el filtro de aceite usado es...

bueno para  
el medio  
ambiente

1º  
PASO

Cuando reciba su filtro usado se  
colecta y se transporta a un  
centro para reciclar.



y bueno  
para la  
economía.

2º  
PASO

Entonces los filtros se  
moldean y el aceite se  
separa del acero.



El acero es llevado a  
una fundidora donde  
es derretido.

3º  
PASO



El aceite usado es  
transportado a una  
refinería.



... y finalmente, su filtro  
usado es reciclado en  
varas de acero  
y en aceite re-refinado.



Para mas información, por favor llame al:  
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# Special recognition

- This project is being implemented with the cooperation and partnership of Kragen Auto Part, inc. Without their assistance, this would not be possible. The City of Los Angeles appreciates their interest in the program and hopes other auto part certified centers follow Kragen's lead.



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